

Distribution of Carbon in the Heat-Affected
Zones of Welds in Austenitic 18-8 Steel, by
H. V. Yl'yanova, B. V. Sagalovich.

RUSSIAN, par, Metal i Obra Metall, No 7,
Jul 1957, pp 2-7.

Henry Bratcher 4289
\$5.90

Sci - Min/Mat
Ord 58

75,725

Raising the Temperature of Finishing Deformation
as a Means of Reducing the Force Required for
Large-Size Forging Blanks, by Altykis, Belan.
UNCLASSIFIED

RUSSIAN, per, Metall i Obrabotka Metal, No 10,
1957, p 48, *Sz.*

Rp. 10, 11 + 12, 13
~~Co-op Tr Scheme~~
Tr 917

Sci - Min/Metals
May 58

63,243

Successes of Soviet Metal Science, by A. A.
Astaf'yev, 21 pp. UNCLASSIFIED

RUSSIAN, no per, Metal i Obrabotka Metallov, No 11,
Moscow, 11 Nov 1957, pp 2-18.

US JPRS/DC-L-346

USSR

Econ - Metallurgy

Sci - Min/Met

Jun 58

64,659

Thesis in the Development of High Temperature
Metallography, by M. G. Loshinskiy, 30 pp.

MUSEUM, par, Metal & Graphite Metallog, No 11,
Moscow, 1957, pp 18-42.

US JPRS/D: L-973

USSR
Scientific - Minerals/Metals
Ceramic - Metallurgy

75, 782

Improved Heat-Treating Processes for Large
Forgings, by N. V. Fiksen.

RUSSIAN, per, Metall i Odra Metallov, No 11,
1957, pp 77-80.

Henry Bratcher 4095
\$5.75

Sci - Engr

Jan 59

78,638

Scientific Achievements of Tselmash in the Field
of Materials and Technology of Machine Building,
by I. R. Kryazin, 13 pp.

RUSSIAN, par, Metal i Obrabotka Metallov, No 11,
Moscow, 1957, pp 56-65.

US JPRS/DX: L-976

USAR

Scientific - Minerals/Metals
Economic - Metallurgy

75,797

R-1794

(NY-1579)

Forty Years of Soviet Powder Metallurgy, by
N. Yu. Bal'shin, G. V. Samsonov, 19 pp.

RUSSIAN, no per, Metal i Obrabotka Metallov, No 12,
Moscow, Dec 1957, pp 15-25.

US JPRS/NY-L-224

USSR

Eco-Metallurgy

Powder metallurgy

67,304

Recrystallization Processes in Nickel Alloys, by
M. E. Blanter, L. I. Kuznetsov, 12 pp.

RUSSIAN, per, Metal i Obra Metallov, No 12, 1957,
pp 31-36. 9660853

ATIC MCL-548

Sci - Min/Metals

May '61

150, 194

Mechanism of Fracture of Alloy E-1437 During
Long Time Exposure at Elevated Temperatures, by
S. T. Kishkin, A. A. Klypin, 10 pp.

RUSSIAN, per, Met i Obrab Metallov, No 12, 1957,
pp 36-40.

CIA/FDD XX-637
NOT RELEASABLE TO FOREIGN
NATIONALS

Sci - Min/met
Sep 59

95, 732

USIB INTERNAL USE ONLY

The Surface Hardening of Titanium by Oxidizing
in Molten Borax, by A. N. Minkevich et al.

UNCLASSIFIED

RUSSIAN, per, Metal i Obra Metallov, No 12, 1957
pp 53-61.

Co-op Tr Scheme 544
(L 3.12a.)

Sci —
Jan 59

77,841

The Effect of Fibre Orientation on the Fatigue
Strength of Hardened Steel, by A. S. Sheyn,
14 pp.

RUSSIAN, per, Metal i Termich Obra Metallov,
No 12, 1957, pp 61-66.

NRC C-3179

Sci

OTS, Vol III, No 6

Sep 60

126,930

The Effect of Fibre Orientation on the Fatigue
Strength of Hardened Steel, by A. S. Shein, 19 pp.

RUSSIAN, per, Metalloved i Obrabotka Metal, No 12,
1957, pp 61-66.

Natl Res Council of Canada
TT-833

Sci - Min/Met
Jan 60

105,826

Effect of Ultrasonic Vibration on the Structures of
Eutectic Alloys, by V. V. Zabolneyev-Zotov, G. I.
Pogodin-Aleksayev.

RUSSIAN, per, Metallovedenie i Obrabotka Metallov,
No 1, Jan 1958, pp 2-6.

Brutcher Tr 4106
\$5.80

Sci - Min/Met

Apr 58

61,442

Influence des Ultrasons sur la Texture des
Alliages Eutectiques, (Effects of Ultrasound on
the Texture of Eutectic Alloys), by V. V.
Zabolev-Zotov, G. I. Pogodin-Alexeyev, 17 pp.

RUSSIAN to FRENCH, per, Metalloved i Obra Metal,
No 1, 1958, pp 2-6.

Reverse Trans
CEA Tr-R-957

Sci
26 Apr 61

X-Ray Study of the System Vanadium Carbide (VC)-
Tungsten Carbide (WC), by M. A. Gurevich, B. F.
Ormont.

RUSSIAN, per, Metallovedenie i Obrabotka Metallov,
No 1, Jan 1958, pp 7-10.

Brutcher Tr 4107
\$3.80

Sci - Men/Met

Apr 58

61,443

Phase Diagram of Chromium-Miobium System, by V. N. Eremenko, G. V. Zudilova, L. A. Gayevskaya.

RUSSIAN, per, Metallovedenie i Obrabotka Metallov, No 1, Jan 1958, pp 11-16.

Brutcher Tr 4108
\$4.60

Sci - Min/Met

Apr 58

101, 44-

Effect of Nitron on the Kinetics of Austenite
Grain Growth and the Actual Austenite Grain Size,
by A. M. Tarasov.

RUSSIAN, per. Metallovedenie i Obrabotka Metallov,
No 1, 1958, pp 17-20.

Henry Bratcher *Tr-4118*
\$4.40

bci - Min/Mat

Jun 58

66,119

Metallurgical properties of alloys as heat-treating media for
Steel, by A. P. Garashchenko, A. P. Gulyayev, Z. S.
Luneva.

RUSSIAN, Vopr. Metallovedeniya i Obrabotka Metallov,
No 1, 1950, pp 21-24.

Henry Bratcher *7-7/80*
\$4.80

Sci & Eng/Net

Jun 58

66, 123

Heterogeneite de la Zone de Fusion des Joints de
Soudure, (Heterogeneity of the Fusion Zone of
Welded Joints), by L. S. Livishits, L. P.
Bakhrakh, S. I. Panich, 12 pp.

RUSSIAN to FRENCH, per, Metalloved i Obrabotka
Metal, No 1, 1958, pp 26-29.

Reverse Trans
CEA Tr R-681

Sep 59

97,449

Composition Variations in Welds, by L. S. Liv-
shits, et al.

RUSSIAN, per, Metall i Obra Metallov, Jun, 1958,
No 1, pp 26-28.

Brutcher 4120

Sci - Min/Met

Jun 59

90,031

Changes in Properties of Ni-Cr Alloy K1765 for
Stationary and Propulsion Turbines During Heating
For Up to 10,000 Hours, by V. Z. Tseitlin, G. G.
Morozova.

RUSSIAN, per, Metal i Obra Metallov, No 1, 1958,
pp 30-35.

HB 4121

Sci - Min/Met, Engr

Jun 61

156804

Nature of Interaction Between Titanium Boride
and the Iron-Group Metals, by G. V. Samsonov.

RUSSIAN, per, Metallovedeniye i Obrabotka Metallov,
No 1, 1958, pp 35-38.

Henry Bratcher
\$3.40

Sci - Min/Met

Jun 58

66,127

Effect of Preceding Cold Working /and Annealing/
Upon Initial Stage of Plastic Deformation and
/Subsequent/ Recrystallization of Iron, by Y.a. R.
Rausin.

RUSSIAN, per, Metallov i Obrabotka Metall, No 1,
1958, pp 39-42.

Brutcher Tr 4123
\$4.85

Sci - Phys, Min/Met

Jun 58

65,724

Grain Growth and Surface Decarburization in
Induction Heating of Steel Billets, by Ya. I.
Karker, M. G. Kogan.

RUSSIAN, per, Metallovedenie i Obrabotka Metallov,
No 1, 1968, pp 46-49.

Henry Bratcher *7-4125*
\$3.25

Sci .. Min/Met

Jun 58

66, 12.1

Procedure for Working Out the Heating Conditions
for Steel on the Basis of Scale Thickness, Bark
Thickness, and Grain Size, by I. F. Golovnev.

RUSSIAN, per, Metallov Odra Met, Jan 1958, pp
49-55.

Henry Bratcher 4126
\$3.90

Sci - Min/Met
Oct 58

74, 859

Memorandum on San Juan Layer Tunnel - a Street
Road Bridge, New York, N.Y. 10011.

RUSSTAN, per. Metellovedente 1 (Ovchotka 1400110)
No 1, 1955, no 55-57.

Henry, Durrcher 7/10/57
\$2.40

Sci - Min/Mac

Jan 58

63, 1/17

Relief of Stresses in Quenched 1.20% Carbon
Tool Steel U12A, by A. A. Gol'denberg.

RUSSIAN, per, Metal : Obrabotka Metallov,
No 2, Feb 1958, pp 6-11.

Brutcher Tr 4146
\$4.90

Sci - Min/Met

Aug 58

68,206

Long Time Strength of Welds at High Temperatures,
by A. V. Stanyukovich, et al.

RUSSIAN, per, Metal i Obrab. Metallov, No 2, 1958,
pp 12-18.

Infosearch Ltd.

Min/Met
Sep 59

HB-4147

96,390

Characteristics of Fatigue Failure of Alloys at High
Temperature, by V. A. Parfenov,

RUSSIAN, per, Metal i Obrabot Metallov, No 2, Feb
1958, pp -19-22.

Brutcher Tr 4148
\$4.25

Sci - Min/Met
Jul 58

66,278

Mechanical Properties of Some Ultra High Strength
[Structural] Steels, by I. V. Paisov, So Yun Mo.

RUSSIAN, per, Metall^{ka} i Obrabot Metall, No 2, 1958,
pp 20-6.

Brutcher Tr 4140
\$4.50

Sci - Min/Met

Jun 58

65,727

Induction Heating at 50 CPS of Heavy-Section Parts,
by V. V. Aleksandrov.

RUSSIAN, per, Metallovedenie i Obrabotka Metallov,
No 2, Feb 1958, pp 23-28.

HB 4149

Sci-M/M
Mar 63

Recrystallization of Low Carbon Steel During Rapid
Induction Heating, by B. A. Kuznetsov.

RUSSIAN, per, Metal i Obra Metallov, No 2, Feb
1958, pp 28-35.

Henry Bratcher 4150

\$7.80

Sci - Engr

Oct 58

74,924

Mechanical Properties of Electrodeposited Copper as
Depending on Electrolysis Conditions and Electrolyte
Composition, by A. M. Ginberg, Yu. A. Z. Klyachko.

RUSSIAN, per, Metal i Obrabot Metallov, No 2, Feb 1958,
pp 35-37.

Sc Bratcher Tr 4151
\$2.90

Sci - Min/met
Jul 58

66,288

R-1886

(DC-1722)

Review by I. A. Odina, M. S. Aronovich of "Steels and Alloys for Working at High Temperatures," by M. L. Bernshteyn, 3 pp. UNCLASSIFIED.

RUSSIAN, no per, Metal i Obrabotka Metallov, No 2, Moscow, Feb 1958, pp 56, 57.

US JPRS/DC-L-538

USSR

Eco - Ferrous Metallurgy
Steels, alloys

67, 264

Affect of Strain Hardening on the Mechanical
Properties of Carbon Steels, by I. V.
Kudryavtsev.

RUSSIAN, per, Metallurg Obrat, Mar 1958,
pp 2-6.

Henry Bratcher 4171
\$4.25

Sci - Engr
Oct 58

74, 853

Fatigue Strength of Austenitic Steels Exposed to
Corrosive Gases at High Temperatures, by A. V.
Kuchchenko, E. L. Kozminskaya.

RUSSIAN, per, Metal i Obrabot Metallov, No 3,
Mar 1958, pp 6-10.

Brutcher Tr 4154
\$5.60

Sci - Min/met
Jul 58

66,282

Resistance Cyclique des Aciers Austenitiques a
la Corrosion des Gaz a Haute Temperature,
(Cyclic Resistance of Austenitic Steels to
Gaseous Corrosion at High Temperatures), by
A. V. Ryabchenkov, E. L. Kazimirovskaya, 12 pp.

RUSSIAN to FRENCH, per, Metalloved i Obrabotka
Metal, No 3, 1958, pp 6-10.

Reverse trans
CEA tr R-051

Nov 59

X-Ray Study of Lattice in Cold-Drawn Steel Wire,
by Ya. S. Umanskiy, D. M. Zlatoustovskiy.

RUSSIAN, per, Metal i Gore Metallov, No 3, Mar
1958, pp 11-15.

Henry Frutcher 4172

~~45~~ 7.5

Sci - Engr
Oct 58

74, 937

Examination of 1Kh18Ni2T Steel as a Tube Material
for Power Stations, by A. S. Gel'man, et al.

RUSSIAN, per, Metal i Obra Metallov, No 3, 1958,
pp 16-24.

Infosearch Ltd.

Sci - Min/Met
Sep 59

96,391

Carbides Formed in the Low-temperature Decomposition
of Austenite, by V. G. Poryakov.

RUSSIAN, per, Met i Obrabot Metallov, No 3, Mar 1958,
pp 24-29.

Brutcher Tr 4163
\$5.85

Sci - Min/met
Jul 58

Handwritten notes:
D. G. Poryakov
Met i Obrabot Metallov
No 3, Mar 1958
pp 24-29
To 100%

Handwritten number:
106.286

Temporary Changes in Mechanical Properties [of
Steel] During Phase Transformations, by V. G.
Vorob'yev.

RUSSIAN, per, Metal i Obra Metallov, No 3, 1958,
pp 35-
38.

Henry Bratcher 4175
\$4.65

Sci - Min/Mat

Jan 59

79,670

Study of Alloys of Magnesium With Various Rare-
Earth Metals, by N. M. Tikhova, I. A. Afonasyova.

RUSSIAN, per, Metal i Obrabot Metallov, No 3,
Mar 1958, pp 38-41.

Brutcher Tr 4166
5.60

Sci - Min/met
Jul 58

66,291

Study of Magnesium Alloys With Various Rare
Earth Metals, by N. M. Tichov, L. A. Afanassiev,
11 pp.

RUSSIAN to FRENCH, per, Metalloved i Obrabotka
Metal, Vol III, 1958, pp 33-41.

CEA Tr R-622

Sep 59

SAINTS VERNICED BY IN-AN-...
Improve Its Resistance to Intergranular Corro-
sion, by Yu. N. Griboedov.

RUSSIAN, per, Metal i Obrat Metall, No 3, Mar
1958, pp 42-48.

Henry Bratcher 4176
\$5.85

Sci - Min/Met
Oct 58

75,726

Medium and Low Tungsten High-Speed Steels Alloyed
With Cobalt, by M. S. Chayadayeva.

RUSSIAN, per, Metal i Odra Metallov, No 3,
Mar 1958, pp 48-53.

Henry Bratcher 4177

\$4.85

Sci - Min/Mat
Oct 58

74, 928

High-Frequency Heating Rates and Quenching
Temperatures for Pearlitic Gray Cast Iron,
by I. P. I. Rusin.

RUSSIAN, per, Metal 1 (Ira Metallor, No 3,
Mar 1958, pp 53-56.

Henry Bratcher 4178
\$3.60

Sci - Engr
Oct 58

74,947

High-Power Quenching Media, by L. V. Petrsch.
RUSSIAN, per, Metallov Obozret, Mar 1958,
pp 56-61.

Henry Bruchman 4179
\$4.90

Sci - Min/Met
Oct 58

74, 860

Chromized Steel of Higher Corrosion Resistance, by
N. F. Vyaznikov, A. N. Popandopulo.

RUSSIAN, per, Metal i Obrabot Metallov, No 3, Mar
1958, pp 60-61.

Brutcher Tr 4169
\$2.00

Sci - Min/mat
Jul 58

66,277

Effect of Elastic Deformation on the Formation of
Martensite, by H. G. Gaidukov, V. D. Sazonovskiy.

RUSSIAN, per, Metal Gora Metallov, No 4, 1958,
pp 2-7.

HB 4180

Sci - Chem

Jan 60.

105,432

Strain Hardening, Softening, and High-
Temperature Strength of Austenitic Alloy
Steels, by L. A. Metashop, M. E. Blanter.

RUSSIAN, per, Metal i Obrabotka Metallov,
No 4, Apr 1958, pp 7-9.

Brutcher Tr 4181
\$2.85

Sci - Min/Met

Aug 58

68,202

Magnetometric Study of Electric Tempering of Steel,
by V. N. Gridnev, V. G. Permyakov, et al.
RUSSIAN, per, Metal i Obra Metallov, No 4, 1958,
pp 9-16.
HB 4182

Sci - M/M
Apr 64

255,964

Effect of High-Temperature Aging on Structure and Properties of 18% Cr, 8% Ni Steels, by Kh. I. Cheskis, S. I. Vol'fon.

RUSSIAN, per, Metal i Obrabotka Metallov, No 4, Apr 1958, pp 16-25.

Brutcher Tr 4183
\$9.35

Sci - Min/Met

Aug 58

68,194

Effect of Relative Contents of Sodium
Cyanide and Hydroxide on Electro galvanizing
Baths on Mechanical Properties of Steel
Plated, by I. I. Moroz, N. T. Kudryavtsev.

RUSSIAN, per, Metal i Obrabotka Metallov,
No 4, X Apr 1958, pp 25-28.

Brutcher Tr 4184
\$3.85

Sci - Chem

Aug 58

68,203

Investigation of the Mechanical and Magnetic
Properties of Fe-Ni-Al Alloys for Permanent
Magnets, by A. A. Shekalov, Ya. I. Streis. USCL

RUSSIAN, per, Metal i Obrat Metallor, No 4,
1958, pp 29-.

DSIR LLJ M.571

(loan)

Sci - Chem; Phys
May 60

116,507

Study of Mechanical and Magnetic Properties of
Iron-Nickel-Aluminum Permanent-Magnet Alloys,
by A. A. Shekalov, Ya. I. Shtreis.
RUSSIAN, per. Metallovedenie i Obrabotka Metal-
lov, No 4, Apr 1958, pp 29-38.
HB 4185

Sci-Mat
Sep 63

365.577

Forging Practice and Quality of Steel for Steam-
Turbines and Turbogenerator Rotors, by H. V.
Tikhonirov.

RUSSIAN, par, Metal i Odra Metallov, No 4, 1958,
pp 39-43.

Henry Bratcher 4186
\$6.75

Sci - Engr

Apr 59

84, 296

Isothermal Bright Quenching of Cold-Coiled
Springs of $\approx 0.60\%$ C, 2% Si Steel 6082A, by
B. V. Venkov, I. I. Borisova, M. A. Noskova.

RUSSIAN, per, Metal i Obrabotka Metallov,
No 4, Apr 1958, pp 44-45.

Brutcher Tr 4187
\$2.25

Sci - Min/Met

Aug 58

68,205

Improved Heat Treatment Practices for Some Forged
Auto Parts, by A. E. Shevelev,

RUSSIAN, per, Metal i Odra Metallor, No 4, 1958,
pp 45-49.

HB 4188

Sci - Engr

Apr 61

144,990

Effect of Magnesium on the Graphitization of
White Cast Iron, by A. V. Chernovol, Yu. N.
Taran.

RUSSIAN, per, Metal i Obrabotka Metallov, No
4, 1958, pp 49-51.

Brutcher Tr 4189
\$2.85

Sci - Chem

Aug 58

68,200

All-Union Conference in Leningrad on the Industrial
Uses of High-Frequency Currents, by S. L. Rustem.
RUSSIAN, per, Metal i X Obra Metallov, No 4, 1958,
pp 61-64.
HB 4191

Sci -Phys
May 64

258,355

Change in Strength Coefficient Due to Martensite
Formation During Plastic Deformation, by M. G.
Gaidukov, V. D. Sadovskiy.

RUSSIAN, per, Metal i Obra Metallor, No 5,
1958, pp 4-8.

4214
Henry Bratcher 488f
\$4.65

Sci - Min/Mat

Jan 59

79,592

Calculation of Springback of Bimetallic Bushings
[for Auto Engines] in Press Forming, by L. Yu.
Pruzhenkiy.

RUSSIAN, per, Metal i Obra Metallov, No $\frac{A}{5}$,
1958, pp 13-16.

HB 4216

Sci - Min/Met

May 60

116,530

High-Temperature Carbonitriding of Plain Carbon
Steels, by O. K. Kotov.

RUSSIAN, per, Metal i Obra Metall, No 5, May
1958, pp 16-20.

Brutcher Tr 4217
\$4.25

Chem
Sci - ~~Metall~~

Sep 58

72,592

ENR

**Study of Austenitic Chrome-Manganese Steels,
by A. S. Panicheva.**

**RUSSIAN, per, Metelli i Oboz Metallov, No 5,
1978, pp 23-27.**

**Henry Bruchar 4219
\$4.45**

Sci - Min/Met

Jan 59

80,675

Effect of Boron on Austenite Grain Size in Steel,
by L. L. Pyatakova, O. D. Zhizhakina.

RUSSIAN, per, Metal i Obra Metallov, No 5,
May 1958, pp 28-30.

7-

Henry Bratcher 4220

\$4.75

Sci - Min/met

Chem

Oct 58

74, 952

Copy of Russian. Serovskii Got Up in World War II
to fight in the Red Army, by L. A. Serovskii
in the Russian.

RUSSIAN, per, Metal. i Oboz Metallov, No 5, 1958,
pp 21-37.

HB 4221

118,415

Sci - Mir/Mos, East

Jun 60

Protection of Springs of Steel NI 723 From High-
Temperature Oxidation, by T. I. Volkova, Yu. E.
Griboyedov.

RUSSIAN, per, Metal i Odra Metallov, No 5,
1958, pp 37-40.

Henry Bratcher 4222
\$2.85

Sci - Engr

Jan 59

79,591

Effect of Technological Factors on the Depth of
Strain-Hardening in Grinding, by Yu. S.
Pavlov, A. G. Yakhontov.

RUSSIAN, per, Metalizm 1 Odra Metallov, No 5,
May 1958, pp 40-43.

Henry Bratcher 4223

\$ 3.90

GI
Sci - Eng
Oct 58

74, 941

Longer Life of Sleeves of Backing-Up Rolls for
Cold-Rolling Mills, by M. M. Kobrin, K. V.
Shishokina.

RUSSIAN, per, Metal i Odra Metallov, No 5, 1958,
pp 43-48.

Henry Bratcher 4224.
\$4.40

Sci - Engr

Jan 59

79,590

Aluminizing of Iron With Aluminum Monochloride
Vapor, by S. A. Semenkovich, A. V. K. Smirnov.

RUSSIAN, per, Metal i Obra Metallov, No 5, May
1958, pp 48-51.

Bruthcer Tr 4225
\$3.50

chem
Sci - ~~Ham~~Met
Sep 58

72,591

R-2081

(NY-1780).

Experimental Research on Some Aspects of Structural
Creep Theory, by V. S. Ivanova, L. K. Gordiyenko,

RUSSIAN, no per, Metal i Obrabotka Metalloy, No 6,
Moscow, Jun 1958, pp 2-6.

*US JPRS

USSR

Econ - Ferrous metallurgy

Brutche: 42.47
SR notified 23.85

Non-Uniformity of Creep, by M. O. Lozinskiy,
et al.

RUSSIAN, per, Metal i Chra Metallov, No 6,
1958, pp 6-9.

Henry Bratcher 4245
\$3.40

Sci - Chem

May 59

86,626

Effect of High-Temperature Heating on Some
Properties of Nickel-Chrome-Tungsten-Titanium
Steel, by V. I. Prosvirin, L. P. Chernov.

RUSSIAN, per, Metal i Obra Metallov, No 6, 1958,
pp 10-14.

HB 4246

Sci - Min/Met

Apr 61

147,470

1780-M

The Effect of Ultrasound on Diffusion Processes
in Steels and Alloys at Elevated Temperatures,
by G. I. Pogodin-Aleksyev, 6 pp.

RUSSIAN, Met i Obrabotka Metallov, No 6, Moscow,
1958, pp 14-17.

Handwritten: 78,767
US JPRS Tr 1-572-M

USSR
Econ - Iron and Ferrous Metallurgy
Jan 59

78,767

1780-M

The Effect of Plastic Deformation on the Heat
Resistance of the El437 Alloy, by S. T. Kishkin,
A. A. Klypin, A. M. Sulima, 5 pp.

RUSSIAN, per, Met i Obrabotka Metallov, No 6,
Moscow, 1958, pp 18-20.

US JPR: Tr L-573-M

USSR

Econ - Ferrous metallurgy
Jan 59

78,768

Service Temperature of Steel for Flat Springs
in Labyrinth Seals of Steam Turbines Increased
to 640°C (1185°F), by T. I. YAKI Volkova.

RUSSIAN, per, Metal i Obra Metallov, No 6,
1958, pp 21-25.

Henry Bratcher #249
\$2.80

Sci - Min/Met

May 59

86,627

the Descriptive Breeding of Antennaria ovata in
High Temperatures and Pressures, by T. P.
Sidorov, A. V. Ryabchenkov, 20 pp.

RESEARCH, per. Mat 1 (Arabotina Mat, No 6, Moscow,
1958, pp 25-32).

US JPRS Tr 1-574-H

Sci. • Minerals, Metals
Jan 59

79,025

1780-N

Protective Coatings of Heat Resistant Alloys, by
V. A. Parfenov, 7 pp.

RUSSIAN, per, Met i Obrabotka Met, No 6, Moscow,
1958, pp 33-37.

US JPRS Tr L-575-N

Sci - Minerals, Metals
Jan 59

79,024

Sigma Phase in Austenitic Steel KI448, by
E. I. Uryupina, A. P. Likina.

RUSSIAN, per, Metal i Odra Metallov, No 6,
Jun 1958, pp 37-41.

Henry Bratcher 4252

3.25

Sci - Min/Met
Oct 58

74, 948

Creep-Resisting Stainless Steels for Steam Power
Plants Operating at up to 600°C (1110°F), by
E. S. Ginzburg.

RUSSIAN, per, Metallovedenie i Obrabotka Metallov,
No 6, 1958, pp 47-52.

HB 4254

Sci-Min/Met
Mar 63

Corrosion of Titanium-Base Alloys by Gases
When Heated in Furnaces or by Induction, by
V. A. Yakovlev, Ya. I. Spektor.

RUSSIAN, per, Metal i Obra Metallov, No 6,
1958, pp 52-56.

HB 4255

118,413

Sci - Min/Met

Jun 60

Study of New Die Steels for the Drop Forging of
Creep-Resisting Steels and Alloys, by A. P.
Gulyayev.

RUSSIAN, per, Metallov Obrab Met, Jul 1958, p 2.

Henry Bratcher 4274
\$6.50

Sci - Min/Met
Oct 58

74, 856

Kinetics of Isothermal Austenite Transformation
in Plain Carbon Steel Being Induction Heated, by
I. N. Kidin, Yu. A. Bashnin.

RUSSIAN, per, Metali Obrn Metallov, Jul 1958,
p 10.

*Henry Bratcher
\$4.25

Sci - Engineering, Minerals/Metals
Jan 59

79,937

Kinetics of Isothermal Transformation of Austenite
in Plain Carbon Steels During Induction Heating,
by I. N. Kindin and Yu. A. Bashnin.
RUSSIAN, per, Metallovedenie i Obrab Met. No 7.
Jul 1958, pp 10-15.
HB 4275

Sci-Mat
Apr 68

352,211

Solution of Graphite in Austenite, by K. P.
Bunin, A. A. Baranov,

RUSSIAN, par, Metall i Obrab Metall, No 7,
1958, pp 15-18.

Henry Bratcher 4276
\$4.25

Sci - Chem

Jan 59

78,632

Effect of Cathodic and Anodic Polarization on
Rate of Stress Corrosion of Austenitic Stainless
Steel, by V. V. Romanov, V. V. Dobrolyubov.

RUSSIAN, per, Metal i Obrabotannyye, No 7, 1958,
pp 19-21.

4277

Henry Bratcher 4284
\$3.35

Sci - Chem

Jan 59

79,671

Aging of Creep-Resisting Nickel-Base Alloy BT437B
Accelerated by Action of Ultrasound, by V. G.
Brazkov, E. A. Al'tan.

RUSSIAN, per, Metallov Obra Met, Jul 1958, p 22:--

4278
Henry Bratcher,
\$1.90

Sci - Min/Met
Oct 58

74, 849

Dispersion of Ferromagnetic Precipitate in Austenite
Compositions, Studied by Demagnetization Curves, by
N. I. Ermin.

RUSSIAN, per, Metallovedenie i Obrabotka Metallov,
No 7, Jul 1958, pp 27-30.

HB 4279

Sci-Min/Met
Mar 63

Ductility of Creep-Resisting Alloys in Dependence
on Structure and Stress State, by M. T.
Rastopayev.

RUSSIAN, per, Metallurg Oct, Jul 1958, p 30.

Henry Bratcher 4280
\$3.80

Sci - Min/Met
Oct 58

74, 850

Structure and Properties of Alloys [and Steels]
After Vibrational Working, by S. N. Shestakov,
M. Ya. Karny.

RUSSIAN, per, Metal i Obra Metallov, No 7, 1958,
pp 35-38.

Henry Bratcher 4281
\$3.25

Sci - Min/Met

84,263

Apr 59

Nitriding of High-Strength Magnesium-Treated Cast
Iron, by Yu. M. Lakhtin, D. S. Pinchuk.

RUSSIAN, per, Metallov Odra Met, Jul 1958, p 39-40.

Henry Bratcher 4282
\$2.75

Sci - Min/Met
Oct 58

74, 851

Improved Heat Treating Practice of Cold Rolled
of 0.90% C, 0.65 Cr, 0.22 V Steel, by I. K.
Brainin.

RUSSIAN, per, Metallov Oora Mat, Jul 1958,
p 43.

Henry Bratcher 4283
\$3.90

Sci - Min/Mat
Oct 58

74, 852

Effect of Heat Treating on [Abrasive] Wear Resistance of Steels for Earth-Moving Equipment,
by N. M. Serpik, M. M. Kantor.

RUSSIAN, per, Metal i Gore Metallor, No 7, 1958,
pp 46-70.

5

Henry Bratcher 4264
\$3.35

Sci - Min/Met

Jan 59

79,669

Effect of Barium Acetate on Activity of Solid
Carburizing Compounds, by L. K. Iaksha.

RUSSIAN, per, Metall i Obra Metallor, No 7,
1958, pp 50-52.

Henry Bratcher 4235
\$1.90

Sci - Chem

Jan 59

78,635

Roller Barnishing of Heavy-Duty Parts Preparatory
to Hard Chromium Plating, by G. P. Kotlyarevskiy,

RUSSIAN, per, Metall i Obrab Metalleov, No 7, 1958,
pp 52, 53.

Henry Bratcher 4286
\$2.30

Sci - Chem

Jan 59

80,673

Effect of Heat Treatment on Notch Sensitivity of
Chrome-Molybdenum-Vanadium Steel, by Z. N.
Petrovskaya.

RUSSIAN, per, Metall i Obrb. Metallov, No 7,
1958, pp 54-58.

Henry Bratcher 4287
\$4.35

Sci - Min/Mat

Jan 59

80,674

Physical-Chemical Properties and Fields of Appli-
cation of Rare Metals, by E. M. Savitskiy.

RUSSIAN, per, Metal i Odra Metallov, No 8, 1958,
pp 2-13.

Henry Bratcher 4313
\$10.60

Sci - Min/Met

OTS 58-12154

May 59

112 101

86,629

Grain Refinement on High-Temperature Heating, by
Ya. R. Rauzin.

RUSSIAN, per, Metallovedenie i Obrabotka Metallov,
No 8, 1958, pp 14-17.

HB 4314

Sci-M/M
Mar 63